

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **62057662 A**

(43) Date of publication of application: **13.03.87**

(51) Int. Cl.

B03C 3/02

B01D 53/36

B01J 23/84

(21) Application number: **60186547**

(22) Date of filing: **05.09.85**

(71) Applicant: **NIPPON DENSO CO LTD**

(72) Inventor: **KISHITA KOJI**
ZAIZEN REIJI

(54) **AIR CLEANER**

COPYRIGHT: (C)1987,JPO&Japio

(57) Abstract:

PURPOSE: To extend the life of a catalyst contg. manganese and copper and having ozone decomposing powder and to eliminate the need for exchanging the catalyst for a long period of time by disposing a filter deposited with said catalyst on the down stream of a dust collecting unit of an ion wind type air cleaner.

CONSTITUTION: An ionization unit 1, the dust collecting unit 2, a honeycomb filter 3 for ozone decomposition on the air down stream side, a honeycomb filter 4 on the air upper stream side and a powder source unit 5 are housed in a casing 6 of the air cleaner for automotive and household uses. The honeycomb filter 3 is formed with the catalyst layer on which a powder mixture composed of about 40W60wt.% manganese powder and 60W40wt.% copper powder is adhered and deposited by a binder. Said filter has the ozone decomposing powder. The metallic catalyst, therefore, acts as an electron transfer catalyst for the ozones generated by a high voltage to decompose the ozones. The catalyst restores the initial performance after a specified period and decomposes the ozones again.

